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ABSTRACT

The block scheduling program used in a high school in a small Midwestern city was evaluated, considering the "hard" data of effects on grade point average (GPA) and attendance, but not information about student attitudes and perceptions. Data were available for approximately 500 students from the classes of 1997 (before the block scheduling), 2000, 2001, and 2001. The relationship between block scheduling and cumulative GPA was not significant, but there was a significant positive relationship in terms of the four individual subject areas. Data suggested that block scheduling had an influence on passage of the Ohio Proficiency Test (OPT) for those students who did not pass the test before starting high school. Trends relating block scheduling to attendance were not clear. Also studies was the relationship between participating in the school band and student grades. The relationship was significant in mathematics, English, and social studies, but not in science. The block schedule did not appear to affect this relationship, and the relationship between participating in band and passing the OPT was a matter of chance. All the data that were significant were supportive of block scheduling, but not all data were significant. Six appendixes contain tables of study data. (SLD)

EVALUATION OF AN ON-GOING BLOCK SCHEDULING PROGRAM

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A paper prepared for presentation at the

Midwestern Educational Research Association Annual Meeting

Chicago, IL, October 2001

MWERA 2001: Proposal abstract

Evaluation of a Block Scheduling program in place in the high school of a small, mid-western city. Description of the context of the evaluation, data selection rationale, methodology used for data analysis and interpretation, reporting to stakeholders, and the findings will comprise the principal content of this presentation. Based on the requirements of the client, only "hard" data were considered, for example, grade point average and attendance. Such things as attitudes and perceptions were not considered. All the data that were significant were supportive of block scheduling; but not all the data were significant. The impact of the evaluation, as perceived by the evaluators, and lessons learned will be discussed.

EVALUATION OF AN ON-GOING BLOCK SCHEDULING PROGRAM

By

Louis Trenta and Isadore Newman

Introduction

Within the context of reform of education, one of the attributes of the traditional educational system that has been a focus for systemic change has been the use of time. While some efforts have focused on, seeking ways to add time to the academic year and the academic day, other efforts have focused on redeploying the time already in the calendar. One set of efforts has centered on the daily schedule offering modifications commonly called "Block Scheduling" in which modifications are made to allow for larger (typically 80 to over 100 minutes) blocks of time per class/subject period.

There are a number of variations since schools that adopt such a plan are not bound to a particular pattern but can adapt it to meet their unique circumstances. Nonetheless, several variations are more common than others. The two most common ones are the 4 x 4 schedule and the AB schedule. In the 4 x 4 schedule, four extended length periods are scheduled for each day and students typically take four courses each semester—hence 4 by 4. Each semester course in this variation is equivalent to a full year course in the traditional 8 period day. The AB schedule

typically has the same 4 period day, but all courses are taught all year long, on alternate days—
the A day schedule has four classes and the B day schedule has four different classes.

Over the last decade, a number of studies and evaluations have been done on block scheduling with some finding evidence of improved student achievement under block scheduling and others finding so significant improvement or a significant decline in achievement. In 1996 the Office of Program Evaluation for the Chesapeake Public Schools reported that in the studied high school failure rates declined in 60% of the school's departments and the percent of A's and B's increased (p. 5. See also Mutter, Chase, and Nichols, 1997.). A 1997 study commissioned by the Metropolitan Educational Research Consortium in Richmond, VA found that grades seemed to improve under both AB and 4 x4 block scheduling although more so in the 4 x 4 schools (Pisapia and Westfall, p. 27). David Snyder in a paper presented at the 1997 Annual Meeting of MWERA reported that student grades in the studied high school improved and significantly more students were on the honor rolls under block scheduling than during the baseline years before block scheduling (p. 4). Stanley and Gifford in their review of the literature on 4 x 4 block scheduling cited nine other studies that found that intensive block scheduling resulted in improvements in student achievement (1998, p. 8). R. Brian Cobb, Stacy Abate, and Dennis Baker (1999, February) reported a study of a junior high block scheduling program that had been in operation for four years. They reported consistently higher grade point averages in favor of block scheduling in all subject areas studied except for mathematics where students in block scheduling performed less well than those on the traditional schedule. Going further they noted that the data suggests block scheduling has a more positive effect on male students than female and on 10th and 11th graders than on 8th and 9th graders (p. 15).

On the other hand, Guskey and Kifer in a 1995 interim report presented at the AERA annual meeting noted that grades generally remained much the same after the introduction of block scheduling at the studied high school (p. 11). Laura Williams (1999) studied one high school whose students experienced traditional scheduling as 9th graders and 4 x 4 block scheduling as 10th graders. In comparing the course grades, she found no significant difference between the 9th and 10th grade scores in English and math; the core courses of English, science, math, and social studies; or in overall grade point average. Lawrence and McPherson, on the other hand, found a significant difference but one that favored the traditional schedule when mean scores on four end-of-course tests were compared in two high schools. Both schools provided data from two years under traditional scheduling and two years under block scheduling for Algebra I, biology, English I, and U. S. history (2000, pp. 179-181).

To the point of this study. The administration and faculty of high school of a small midwest city initiated a 4 x 4 block schedule for the 1997-1998 school year with the approval of the local board of education. Over the years since, critics of the schedule have pressed for a return to the traditional schedule. During the 2000-2001 school year, the Board requested an evaluation of the program prior to making a decision about continuing, terminating, or modifying the program. Since they had received reports that the great majority of the faculty and students preferred the block schedule, they were not looking for more qualitative information, rather they wanted an evaluation based on what might be called "hard data," data not derived from opinions or attitudes of either supporters or critics but rather data that was a measure of achievement. A tangential request from the Board was for the evaluators to report on the relationships with participation in Band. Finally, there was a request for the number of Studied Community Foundation merit scholarships that were renewed by graduates who had experienced block scheduling.

Thus, there were three key questions to guide the inquiry and data analysis:

- 1. What is the relationship between block scheduling and (a) student grades, (b) Ohio Proficiency Test scores, (c) ACT scores, and (d) attendance?
- 2. What is the relationship of participation in Band and (a) student grades, (b) Ohio Proficiency Test scores, (c) ACT scores, and (d) attendance?
- 3. What is the number of graduates who experienced block scheduling who also received and renewed Studied Community Foundation merit scholarships?

Focus of the Evaluation

This evaluation began with one foundational question, "What is the relationship of block scheduling and student grades, Ohio Proficiency Test scores, ACT scores, and attendance?" A second question was put forward about the relationship of the arts programs and student performance. For the purpose of this evaluation and due to limitations in applicable data, the second evaluative question was stated as, "What is the relationship of participation in Band and student grades, Ohio Proficiency Test scores, ACT scores, and attendance?"

Data Needed to Complete the Evaluation

In general the information needed to respond to the evaluative questions was duration of exposure to classes in the block scheduling format and the selected performance measures for each student selected for the sample. More particularly, data gathered from each selected student's transcript included years experience under the block scheduling paradigm; cumulative grade point average (GPA); courses taken and grades in math, science, social studies, and English; ACT scores, if taken; number of days absent for each year at the High School; whether the student had passed the ninth grade Ohio Proficiency Test in reading, writing, math, science, and citizenship; and whether the student participated in band. From the courses taken and grades

received in the four specified subject areas, the evaluators generated a GPA for each of the four subject areas.

Overview of Evaluation Plan and Procedures

This evaluation began with the Board's request for statistical data related to the relationship of block scheduling and student performance as measured by four specified methods—student grade point average, student attendance, ACT test scores, and Ohio Proficiency Test scores. The district provided transcript data for a sampling of approximately 500 students from the classes of 1997, 2000, 2001, and 2002. Information related to the four factors plus band participation and duration in school under block scheduling was entered into a database. The data was analyzed for statistically significant relationships.

Conclusions

Going back to the key questions that were used as the starting point for gathering and reporting the data contained in this report, we can point out some conclusions. The two key, focusing questions were

- 1. What is the relationship of block scheduling with student grades, Ohio Proficiency Test scores, ACT scores, and attendance?
- 2. What is the relationship of participation in Band and student grades, Ohio Proficiency Test scores, ACT scores, and attendance?

Since the two questions asked about eight potential relationships, in essence, we dealt with eight questions and will present the results as responses to those eight questions. First, is there a relationship between block scheduling and student grades? A review of the data summarized in Chart A and Table 1 below leads to the conclusion is that there is a positive and significant relationship and a positive trend in the four academic subject areas (see Appendix B:

Correlations: Total Sample and Appendix C: Regression: Total Sample for additional regression analyses, pages 18 and 19). Since correlations only show relationships and do not determine cause, it is not possible to say block scheduling was the cause of the greater degree of the relationship. There is reason to say there is support for the inference of "an influence" on academic success. On the other hand, the relationship between block scheduling and the cumulative GPA was not significant. Students did not tend to do either significantly better or worse in terms of their cumulative GPA but did show a significant positive relationship in terms of the four individual academic subject areas.

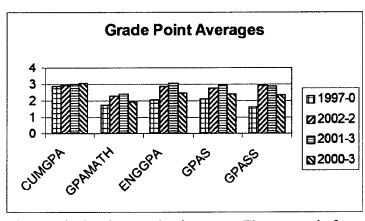


Chart A: Grade Point Averages

The year is the class graduation year. The numeral after the year is the number of years in block scheduling.

		CUMGPA	GPAMATH	ENGGPA	GPAS	GPASS
	Pearson Correlation	.057	.149	.228	.178	.359
YRBLOCK	Sig. (2-tailed)	.205	.001	.000	.000	.000
	N	500	500	500	500	500

Table 1: Block Schedule and Grade Point Average*

Another way of looking for potential influence by block scheduling on academic performance was to speculate that if there were a positive effect, there would be more significant

^{*}See Appendix A, page 17, for a list of the Variables.

positive correlations between the selected indicators of success after block scheduling than existed before it was implemented. We sorted the sample population according to years in block scheduling (zero years, two years, and three years). Then we looked for correlations, positive or negative, between the factors. There were 66 potential pairs for the zero class (there was no OPT Science examination when they were tested) and 78 for the other two groups. As can be seen in Chart B below, the class that did not experience block scheduling had significant positive relationships between approximately 58% of the potential pairs. The class with two years of block scheduling had approximately 64% of their potential 78 pairs showing a significant positive relationship. In the classes with three years under block scheduling we found approximately 72% of the pairs of indicators had significant positive relationships. The "presumed" add-ons in the chart are to account for OPT tests where there was no variability since all the students in the sample had passed the test. In those cases, we presumed a significant positive relationship. See Appendices D and E, pages 20 and 23, for correlations with years in block scheduling.

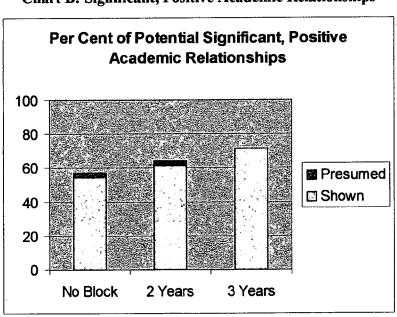


Chart B: Significant, Positive Academic Relationships

Second, is there a relationship between block scheduling and OPT scores?

Considering that the OPT examinations are given starting in the spring of the eighth grade and block scheduling does not begin until the ninth grade (tenth grade for the Class of 2000), one could not expect anything but a chance relationship between block scheduling and passage of the OPT tests. Chart C and Table 2 below bears this out. It would be very unusual to find a significant relationship between the two. However, indirect inferences can be made from a relationship that exists between GPA in the academic subject areas of math, English, social studies, and science and passage of the OPT and the relationship that exists between block scheduling and the GPA in those subjects. This double relationship with academic GPA supports the inference that block scheduling may have "an influence" on passage of the OPT for those who did not pass it before starting high school.

Chart C: Passing the Ninth Grade Ohio Proficiency Tests

The year is the class graduation year. The numeral after the year is the number of years in block scheduling.

Table 2: Block Schedule and Passage of Ohio Proficiency Tests

		WRITING	READING	MATH	CITIZEN	SCIENCE
	Pearson Correlation	.013	028	.007	025	097
YRBLOCK	Sig. (2-tailed)	.780	.538	.869	.582	.062
	N	499	499	499	499	373

Third, is there a relationship between block scheduling and ACT scores? There was no significant relationship between years in block scheduling and ACT scores. A related question raised during the process of preparing this evaluation was, "Are the recent declines in ACT scores related to block scheduling?" Since not all students take the ACT and those that do self-select, this creates potential for underlying variation in ability to cloud relationships with other factors such as time in block scheduling. To peer beyond the effect of ability on ACT, the initial abilities of the students taking the test were held constant. When this was done, the decline was not significant. That is, when variations related to ability are removed, the variation that remained was so slight as not to be significant. Chart D below shows the similarity in outcomes one would expect from a comparison of ability and ACT scores. Cumulative GPA tended to follow the same pattern although GPA is on a different scale than the other two. The ability score is on a 3-point scale with 3 being high and 1 low. ACT scores were divided by 10 so they would fit on roughly the same scale as GPA and the derived ability score.

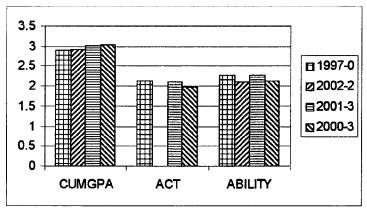


Chart D: Cumulative GPA, Ability, and ACT

The year is the class graduation year. The numeral after the year is the number of years in block scheduling.

Fourth, is there a relationship between block scheduling and attendance? As can be seen in Chart E and Table 3, the multiple directions of average attendance, varied by grade level,

did not seem to be significantly related to time in block scheduling. There were so many cross currents of movement up and down in attendance patterns, that trends relating block scheduling to attendance were not clear.

Average Days Absent 10 8 **1997-0 2002-2 = 2001-3** № 2000-3 ABSEN9 ABSEN10 ABSEN11 ABSEN12

Chart E: Average Days Absent

The year is the class graduation year. The numeral after the year is the number of years in block scheduling.

			· · · · · · · · · · · · · · · · · · ·	
	ABSEN9	ABSEN10	ABSEN11	ABSEN1
Pearson				

Table 3: Block Schedule and Days Absent by Year

		ABSEN9	ABSEN10	ABSEN11	ABSEN12
VDDI GOV	Pearson Correlation	002	.022	.119	013
YRBLOCK	Sig. (2-tailed)	.970	.621	.008	.803
	N	490	496	497	375

Fifth, is there a relationship between Band and student grades? Band showed a positive relationship with the four academic subject areas and the cumulative GPA. The relationship was significant in math, English, and social studies but not in science.

Table 4: Credits earned in Band and Grade Point Average

		CUMGPA	GPAMATH	ENGGPA	GPAS	GPASS
	Pearson Correlation	.178	.109	.088	.075	.092
BAND	Sig. (2-tailed)	.000	.015	.049	.096	.041
	N	499	499	499	499	499

Another version of the fifth question was raised during the preparation of this report, "How does the relationship between band students' academic achievement under block scheduling compare with their achievement outside/before block scheduling?" Overall, Band students had essentially the same GPAs cumulatively and in the four academic subject areas whether they were in or out of block scheduling with the exception of English and social studies where those in block scheduling did better than those not in block scheduling. See BBLOCK in Appendix F, page 27.

Sixth, is there a relationship between Band and passage of OPT scores? Just as with block scheduling, students typically begin participation in the High School Band after they start high school while the OPT is given before they start high school. The relationship between the passage of the OPT and participation in Band was a matter of chance, especially for those students who passed one or more of the OPT sub-tests in the eighth grade.

Table 5: Band Credits and Passage of Ohio Proficiency Tests

		WRITING	READING	MATH	CITIZEN	SCIENCE
	Pearson Correlation	.005	.012	027	.004	065
BAND	Sig. (2-tailed)	.903	.796	.555	.926	.208
-	N	499	499	499	499	373

Seventh, is there a relationship between Band and ACT scores? The number of credits earned in Band and scores on the ACT test seemed to head in the same direction.

However, this correlation is not strong enough to be considered significant.

Table 6: Band and ACT Scores

		ACT
	Pearson Correlation	.117
BAND	Sig. (2-tailed)	.075
İ	N	234

Eighth, is there a relationship between Band and attendance? The collected data did not show a significant relationship between participation in Band and attendance. Whether attendance was up or down for band participants over time was merely a matter of chance.

Limitations

This was an evaluation of a program that had been operating since the 1997-1998 school year. In order to establish a causal relationship between block scheduling and improved performance, it would have been necessary to begin a research protocol before beginning the program. In these situations, the best we can do is establish support for a concept/program but not direct evidence of cause and effect

Block scheduling had been in place for only three years; hence, no graduation class had experienced and left records of a full high school career on block scheduling. Graduates in the class of 2000 were in block scheduling for grades 10, 11, and 12. The class of 2001 has records for their experience in grades 9, 10, and 11. Since their senior year was underway during the study, year-end data was not available. The class of 2002 had two years of experience and records under block scheduling, grades 9 and 10. Those students were experiencing their third year in block scheduling at the time of the study.

The evaluation was based on a sampling of the total student population from the classes of 2000, 2001, 2002, and the pre-block scheduling class of 1997 (used as a control).

The statistical analyses comparing block scheduling and student grades, proficiency scores, ACT scores, and attendance yielded correlations, not proof of cause and effect.

Band had far fewer participants than the general student population, as one would expect since band members are a subset of the total student body. This meant there were fewer scores to consider and more questions to raise about any relationship between participation in band and

the four selected performance measures. In addition, it was not possible to determine how many students would have taken band but for the block schedule. Available data only documents what was done, not what might have been done given other circumstances.

The ACT test is typically taken during the student's junior year at school. This meant that for this evaluation, those students with the most years in the block scheduling environment, the class of 2000, would have had only one year before they took the test and been in its second year in block scheduling. Only the class of 2001 would have had two years before taking the test. The class of 2002 had a few students take the ACT earlier than normal. In the sample there were 12. Since the earlier ACT takers are not likely to be representative of the ability of the full class, reliance on their scores as indicative of class performance was not appropriate.

Finally, identifying the number of block scheduling graduates who renewed Studied Community Trust merit scholarships offered little information without a track record for graduates who did not experience block scheduling. Additionally, the graduation class that experienced more than half their high school years in block scheduling just graduated the spring before the study began and had not yet sought to renew their scholarships. Therefore, the third question raised by the Board was beyond the scope of available data and not considered further.

Summary Conclusion

The literature that included statistical analysis of data was mixed in relating improvement in student achievement and block scheduling. Many variables beyond the schedule, both in the school and in the community or home, can and almost certainly have influenced student achievement. Left unexamined were variables related to preparation or in-service of the teachers for teaching in the block format, the teaching methodologies used by the teachers, and the effect of moving from an older cramped building to a new, spacious high school building.

The goal of this study was to provide the reader with a careful, detailed analysis of some of the measurable effects that might be related to block scheduling in one mid-western high school. In this case, the students who were being educated in a block-scheduling environment appeared to do as well as students in the traditional environment in most indicator areas and showed a significant positive relationship with better achievement in the academic subject areas. Hence, there is support for the inference that block scheduling has "an influence" on academic success in this high school.

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Appendix A: Variables List

Year Class year

Years in block scheduling Yrblock

Overall GPA; Cumulative GPA Cumgpa

ACT scores **ACT**

Ansence9-12 Number of days absent from school for each school year

Passed or not passed Writing on the OPT Writing

Number of times needed to pass Writing WTT

Reading Passed or not passed Reading on the OPT

Number of times needed to pass Reading on the OPT **RTT**

Passed or not passed Math on the OPT Math

MTT Number of times needed to pass Math on the OPT

Passed or not passed Citizenship on the OPT Citizen

CTT Number of times needed to pass Citizenship on the OPT

Science Passed or not passed Science on the OPT

Number of times needed to pass Science on the OPT STT

If they were in Band and how many credits earned Band

Ability IQ score placed in range from 1 (low) to 3 (high)

GPAMath Overall GPA for Math

ENGGPA Overall GPA for English

Overall GPA for Science **GPAS**

GPASS Overall GPA for Social Studies

BBlock Band member before (1) or during (2) Block Scheduling

Appendix B: Correlations: Total Sample

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BAND	Pearson Correlation	9	_												83		88	.075	.885
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^{.*.} Correlation is significant at the 0.01 level (2-tailed).
. Correlation is significant at the 0.05 level (2-tailed).
8. Carriot be computed because at least one of the variables is constant.

Appendix C: Regression: Total Sample

Model	Variables Entered	Variables Removed	Method
1	GPAS, ABILITY, ACT, GPASS, GPAMATH, ENGGPAª		Enter
a All re	quested variables entered.		

	•		Model Summary	
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.595°	.354	.337	1.1350
a Predic	ctors: (0	Constant), G	PAS, ABILITY, ACT, G	PASS, GPAMATH, ENGGPA

MO	odel	Sum of Squares	df	Mean Square	F	Sig.
	Regression	160.239	6	26.707	20.732	.000°
1	Residual	292.414	227	1.288		
Ì	Total	452.654	233			

			Coefficie	ents*		
		Unstandardized	l Coefficients	Standardized Coefficients	t	Sig.
M	odel	В	Std. Error	Beta		
	(Constant)	2.290	.398		5.745	.000
	GPASS	.946	.141	.712	6.727	.000
	ABILITY	262	.198	099	-1.325	.186
1	ACT	101	.028	321	-3.560	.000
	GPAMATH	185	.122	144	-1.509	.133
	ENGGPA	-5.367E-02	.151	042	355	.723
	GPAS	.122	.138	.097	.885	.377

Appendix D: Correlations at Specified Years in Block Scheduling Correlations When No Years in Block Scheduling

!								ļ	Corretations	ا م									
VRRIDER	Pagreon Correlation	YRBLOCK	CUMGPA	ACT	ABSENB	ABSEN10	ABSEM1	ABSEN12	WRITING	READING	MATH	CHIZEN	SCIENCE	BAND	ABILITY	GPAMATH	ENGGPA	GPAS	GPASS
	Sig. (2-talled)																		
	2	124	124	11	124	124	124	124	124	2	12	27	•	124	2	121	124	124	121
CUMGPA	Pearson Correlation	۰.	1.000	.817***	257**	-308	355**	-362**	145	990.	.188*	145	٠.	.195*	-959"	218. 	198′	.848	.878
	Sig. (2-tailed)	. 5	. 5	4 g	ş ş	ē ;	<u>8</u> :	8 3	<u> </u>		88 5	<u> </u>	٠ ،	8 5	8	8	8 :	8 3	8 5
ACT	Pearson Correlation	•		90:	40.	25	191-	386-	5	5 -	\$ °.	5	•	8	9	745	723	-683	77.4**
	Sig. (2-tailed)		98		.802	1,0	588	8						986	8	000	8	000	8
		4	F	7	12	4	1	1	11	11		7	. 0	1	11	4	1	4	12
ABSEN9	Pearson Correlation	Б .	257	014	1.000	.805	010	.428	189	28	-118	-98	₽.	.092	-181	-200-	8	-240-	-150
	Sig. (2-tailed)	- (ğ.	28	. ;	8	8	8	55	184	50	575		.307	\$	929	.862	.00	760
ABCENTO	Degreen Correlation	124	124	//	124	77	42.54	124	3 5	7	8	2 2	Ī	72	127	124	124	127	42.5
	Sig. (2-tailed)		9 8	2. 5.	8 8	3	000	, PG	629	21.5	679	3 2	•	3 6	9 5	900	500	50	0.4
	z	2	2	7	2	121	7	2	2	7	\$	2	0	124	2	2	2	2	2
ABSEN11	Pearson Correlation	۰.	355	191	1016	-612	1.000	.402	089	.306.	036	.089	.	029	-17B-	286	-217-	-308	-243-
	Sig. (2-tailed)	• !	8		8	8	٠	8	324	ē.	288	325	•	157.	8	8	.015	ē.	8
1	2	134	124	2	124	2	124	124	124	124	124	121	0	124	124	124	124	124	124
ABSENTZ	Pearson Constation	•.	.382	385	428	E S	402	99.	41.	.083	98.	141	D ,	075	28.	268	-312	-327	.325
	org. (Addition)	. 121	27.	3 12	951	3 2	3 2	. 22	5 T	124	8 5	5 T		45 42 42 43	4 5	124	8 2		BG 12
WRITING	Pearson Correlation	6	145	•	180	.043	680	141	1.000	573	B62**	-000	6	590	265	110	720	142	580
	Sig. (2-tailed)	•	82		.373	829	324	118		8	8	8		124	8	223	53.	116	g
	z	124	121	11	124	124	124	124	127	124	124	12	0	124	121	124	124	124	12
READING	Pearson Correlation	Φ.	950.	■.	084	113	-304**	093	.573***	1.000	.484	.573	€.	760.	,20 6 *	.044	-,017	.013	910
	Sig. (2-talled)		545		18	211	.00 1	S.	90: 0	•	8	8		089	22	.624	.848	888	978
	z	124	124	"	124	421	124	124	2	124	124	124	0	22	124	124	124	124	121
MATH	Pearson Correlation	•.	2 2		116	£ 6	98. (0	980.	.882	4. 2.	9. 8	286.	₹.	920	. 35°	<u> </u>	# 5	115	711.
	oig. (2-talled)	. 72	S 5		B 2	2,5	26 S	20 5	ğ Ş	8 5	. 5	8 5	٠.	8 5	8 5	470.	87.75	207	£ \$
CITIZEN	Pearson Correlation	•	145	•	- 64	5	200	17.	1 000**	4774	887	3	8	380	286	9	757	67	\$ 60
	Sig. (2-tailed)		<u> </u>		373	£ 5	325	118	8 8	3 8	8 8	3		3 7	8 8	2 2	3 23	7 -	S 8
	z	124	124	"	<u>\$</u>	121	2	12	124	124	124	124	0	2	2	121	121	124	2
SCIENCE	Pearson Correlation	€.	۹.	a .	a .	6 .	€.	•.	₽.	.	σ.	•.	۰.	•.	€.	5 .	θ.	₽.	₹.
	(2-(alled)		•						٠ ،		٠.	٠		. 6		٠ ،		٠.	٠. د
BAND	Pearson Correlation		185*		095	500	920	.075	900	037	920	98	, •	000	177	260		96	2
	Sig. (2-tailed)		83		706	126	5.	5	174	989	\$	1.24			90	S		<u></u> 5	23
	z	124	121		124	124	124	121	124	124	124	124	0	124	124	124		124	124
ABILIT≺	Pearson Correlation	•.	985		181*	-228	-178*	202*	.285	.206*	.335**	.785	●.	.177	1.000			-007	.573
	N (STANDO)	. 424	25			12.	5 5	2, 2	3 5	220	25	3 5	٠ .		. 2	9 5		3 5	3 5
GPAMATH	Pearson Correlation	0.	.B17**		-200-	248-	- 286-	268	5	\$	197	£.	, e.	89	.537	1.00		102	.721-
	Sig. (2-tailed)	•	90.		.026	900	ē	8	23	.624	.074	R	•	.303	000	٠		98	8
- 1	z	124	124		124	72	124	124	124	124	124	124	c	124	124	124		124	121
ENGGPA	Pearson Correlation	•.	<u> </u>		188	707	-217	312	.057	-017	± 1	750:	e.	Ē.	480	740		.759**	<u>e</u>
	og: (c-tamed)	. 421	22.		124	520.	42.	Bi 2	124	95. 124.	12 Z	124	٠.	65 27	080	999.		280. 7	8 2
GPAS	Pearson Correlation	•	.B46-	L	-240-	- 250-	-306-	-327-	142	013	115	142		136	430***	701	L	1 000	-022
	Sig. (2-tailed)	•	96.		700	989	§.	98	911.	88	707	911		5	000	8			8
2000	Z	122	12		124	124	22	2	22	124	124	22	-	124	\$	22		22	72
GFASS	Pearson Corelation	٠.	878.		2 5	Z Z	243	-325	26	85	117	8	6.	689	573	.721		.077.	90.
	Sig. (2-tailed) N	124	99; <u>1</u> 2	8 5	124	410. 424	8 Z	8 2	56. 42	848	5 <u>8</u> 5	8 2		£ 2	98. 4	99. 7	8 5	900	. 121
*	O with the description of section		<u> </u>																

20

^{...} Correlation is significant at the 0.01 level (2-tailed).
Correlation is significant at the 0.05 level (2-tailed).
8. Cannot be computed because at least one of the variables is constant.
b. YRBLOCK = .00

Correlations When Two Years in Block Scheduling

									Correlations ^b										
		YRBLOCK	YRBLOCK CUMGPA	ACT	ABSENB	ABSEN10	ABSEM1	ABSEN12	WRITING	READING	MATH	CITIZEN	SCIENCE	GNAB	ABILITY	GPAMATH	ENGGPA	GPAS	GPASS
YKBLOCK	Pearson Correlation Sig. (2-tailed)	o	•	· ,	•	B, ,	ω, ,	•	• <u>,</u> ,	o .	σ	•, ,	Φ,	w	6 0, ,	æ. ,	♥
	z	63	125	12		121	2	1	ı		12	2	124	12	135	125	125	125	125
CUMGPA	Pearson Correlation	• <u>.</u>	- 96.	.529	292	316	-276-	₽.	<u> </u>	197	458**	Š, š	369	082	.383***	.857***	-978.	.912**	.869**
	N (Company)	52	. 52	5 2		<u>3</u> 2	ž <u>Ž</u>				3 2	3 2	35	2, 25	. 52 52 52 52 52 52 52 52 52 52 53 54 54 54 54 54 54 54 54 54 54 54 54 54	125	3 2	9, £	521
ΨÇĪ	Pearson Correlation	°.	.529	1,000		370	.449	ο.	1		₽.	Θ.	€.	٠.	-879-	194	5	-789	.196
	Sig. (2-tailed) N	. 5	70.	. 5		8 5 5	<u>ā</u> :	٠.			. 5	ţ	. 5	. 5	9. 8. t	<u>1</u>	85. ÷	4. 5	
ABSENB	Pearson Correlation		282	98		727	F36**	, .			131	. 787	270	7 990	2 3	188	150	7,18	- 320***
	Sig. (2-tailed)		8	Ą		80	g		28		5	8	80	525	2 8	9	8 8	9	9
	z	124	72	12		2	2	-	12		22	2	127	2	22	122	2	2 2	12
ABSEN10	Pearson Correlation		316**	.370		1.000	.728-	6.	.032	ĺ	- 135	151.	.188	990.	\$	-202-	207*	253-	328
	Sig. (2-tailed)	• !	8	738		•	90	•	.72		82	88	980	285	559:	720	56	98.	90.
ABSCRIA	N Company	12%	124	7		124	75	•	12/2		22 23	20	2	2	2	2	124	124	2
ABSENT	Pearson Coreignon	·.	276	4 3		82.	900.	D.	Ž i		8 5	2.5	8	2 0, 1	20.	. 134	-181·	<u>8</u>	500
	odi. (Atauca)	. 42	124	<u> </u>		124	. 421	٠,-	ğ <u>7</u>		Š t) 12,	950 421	28.7	5 5	25.	\$ 5	820.	96. 1
ABSEN12	Pearson Correlation	•.	·	•		•.	Φ.	В.	•		6		-		•	•	•	•	
	Sig. (2-tailed)			•	•	•										. ,			
	Z	-	-	0	-	-	-	1	-		-	-	-	-	-	-	-	_	-
WRITING	Pearson Correlation	•.	.143	•	020	.032	700:	α,	1.000		.218*	700.	Š	.032	971.	.073	102	8	5
	Sig. (2-tailed)	• ;	.112		28.	27.	3		. !		25	ð.	8	727.	90	77	.257	Ē	245
CHICKER	N	124	124	12	124	124	121	-	124		124	2	124	124	124	124	124	124	2
S S S S S S S S S S S S S S S S S S S	Sig (2 tellad)	·.	/61	•.	5	reo.	8 8	٠.	012		F 116.	Š.	.187	9.1.	550	8	82 :	202	-187
	Sig. (A-tailed)	. 424	124			475.	2 2		28. F		3 2	£ 5	920.		8 3	128	96 5	529.	PZ0: +
MATH	Pearson Correlation		456		L	551	8		218		1,000	2	199	- 288	360-	1014	i de	187	388
	Sig. (2-tailed)	•	98			136	792		56			8	8	8	8	8	8	8	8
	z	124	124	12		124	124	1	124		124	124	124	\$	25	124	\$	\$	\$
CITIZEN	Pearson Correlation	٥.	304			¥.	-240***	•.	024		.285***	1.000	404	021	-165	178	. 153.	.321	.336
	Sig. (2-tabed)	. 5	8	. 2	ē :	88	700.	•	Z		8		8	.817	290:	8	95.	8	8
SCIENCE	Describer Correlation	**	2000		124	* 00	4700		100	l	W	124	77	42	27	124	124	124	77
	Sin (2-bailed)	'. 	900	·-	9 6	8 8	90.	٠.	1 5		8 8	1 2	3	700.	5 8	F 20	316	3 8	R
	z		121	. 5	2	2 2	75	-	72		<u> </u>	ž	. 12	12.	25	5 T	₹ 2	3 2	<u> </u>
GAND C	Pearson Correlation	-	-,082		058	990	024	e.	.032		280***	021	062	1.000	-162-	-054	-148	2	-077
_	Sig. (2-tailed)	• ;	85 25			282	.782		727		ē.	.817	485		S	85.	ē.	1980	38
2	2	124	124			124	124	-	124		124	2	124	121	25	124	124	124	75
	Sig (2-talled)	'. 	3 6			3 5	418	•.	בי קר		8 8		() E	-182	96	8 8	372		şi s
	z	. 53	25			5 2	75	-	<u> </u>		₹ 2	12,	3 2	ž <u>7</u>	. 52	3 2	3 2	. 55 55	12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
GPAMATH	Pearson Correlation	•.				-202-	-:137	•,	£70.		*10**	178	.239***	180	328	1.00	734	-877	.71B**
	Sig. (2-tailed)	. \$	8 5	<u>8</u> 5		20. 5	<u>8</u>	•	2 5		8 5	8	88 3	98.	99	. \$	900	8	8
ENGGPA	Pearson Correlation					. 207	191	- -	102		381	23.4	11800	449	100	27.7	200	27/14	704
	Sig. (2-talled)					120	2		792		Ę 8	200	ē 8	-	, S	<u> </u>	3	. 6	ē 8
	z	53				2	12	-	12		<u>+</u>	12,	22	2	52	125	. 52	3 2	3 2
GPAS	Pearson Correlation	•	12			253	-188	9.	.148		487	.321***	.333**	¥	.365	-8/1	-377.	1.000	791
	Sig. (2-talled)	. !	8			98:	929		ᅙ		8	96	8	.087	8	8	88.	•	8
SSVOE	Descent Completion	- P	125			124	124	-	124		124	124	124	121	125	125	25	25	22
2	Sig. (2-tailed)		8			8	96	١.	3. 2		8 8	ş	9 6	308	§ 8	2 8	5 8	ē	3
	i z	. 55	52			2	75	-	2		1 2	12	3 7	12.	3 12	125	<u> </u>	ş 52	125
Corret	Correlation is significant at the 0.01 level (2-tailed)	0.01 level (2-taile	١.																

[•] Correlation is significant at the 0.01 level (2-taited).
• Correlation is significant at the 0.05 level (2-taited).

• Carnot be computed because at least one of the variables is constant.

• YRBLOCK = 2.00

Correlations When Three Years in Block Scheduling

									Correlations ^b										
		YRBLOCK	CUMGPA	ACT	ABSEN9	ABSEN10	ABSEN11	ABSEN12	WRITING	READING	MATH	CITIZEN	SCIENCE	BAND	ABILITY	GPAMATH	ENGGPA	GPAS	GPASS
YRBLOCK	Pearson Correlation	•.			B.	80 ,	•	•.	.	۰.	Φ.	٠.	8 0,	♥.	■.	₹.	ω,	۹.	₹.
	Sig. (2-tailed) N	. 85	250			. 742	248	. 87	. 280	. 520	. 98	. 280	549	. 050	. 290	590	520	250	. 280
CUMBPA	Pearson Correlation	•.	- 000			333-	-362**	-308	-150	.143*	-88-	.173	.218***	.751	2899.	.823**	986	.679.	.852***
	Sig. (2-tailed)	•	•	900		8	96	8	910.	8	g	8	8	8	8	8	8	8	8
	z	250	250			247	248	249	250	250	250	250	249	8	82	520	720	250	280
¥CI	Pearson Correlation	•.	2.	_		26	-147		<u>5</u>	7	■,	3	187	3	7	.676	932	980	585
	Sig. (2-tailed)	. 44	8 5		¥ 5	.281	970.	5E.	8 4	86 2	. 44	8 5	ē 5	86 2	8 \$	8 3	8 3	8 3	8 3
ARSENG	Pearenn Correlation	2 "	X	İ		200	2 6	1/2	300	286	278	200	280	3 2		201	196	1747	2.0
	Sin (2-balled)	-	9			į	3 5	Ę	9 6		9 8	Ę	ž	3 2	3 2	£	3 8	8	ē
	Z	78	7	5		175	98	78	78	78	7	78	×	2	75	75	7	12	7
ABSEN10	Pearson Correlation	٥.	-333			- 000	500	374**	085	- 166	086	075	+10	-,125	<u> </u>	.244	282-	- 205-	- 243**
	Sig. (2-tailed)		000			•	8	900	181.	91.	<u>=</u>	240	.825	15	980	000	000	99	8
	z	227	27			247	245	248	247	7%	22	742	246	247	247	247	247	247	247
ABSEN11	Pearson Correlation	•	-382-			-2005	1.000	.572	133-	-156-	059	025	580°-	097	-2112	-282-	-284	-320-	254
	Sig. (2-tailed)	-	8			88	•	8	.037	.03	750	58	81.	.128	970	8	8	8	ģ
	z	248	248			245	248	248	248	248	248	248	248	248	248	248	248	248	248
ABSEN12	Pearson Correlation	۰.	-308-			.374***	.572***	98.	B.20	116	.02	8	.1861	-112	Ē	308	-330	-326	. W.
	Sig. (2-tailed)	•				8 6	98		227	980	4	88	88	96. 56.	8	8	8	8	8
	2	249			ı	246	248	249	248	248	248	248	249	249	248	248	248	248	8
WRITING	Pearson Correlation	•.	<u>p</u> 2			085	-133	078	98.	.880	.322	433	8	015	.270	\$	-95	14	<u>8</u>
	Sig. (2-tailed)	•	810			181	760	223	•	99	8	8	Ž.		8	5	£6.	8	8
	z	280	250	1		247	248	249	250	220	250	82 22	249	82	220	250	280	2	8
READING	Pearson Correlation		143			92	158*	911.	.883	900	.365	318	91.	8	220	920.	131	8	\$
_	Sig. (2-talled)	. 6	45 P			8 5	55 5	8 8	B 5	. 636	8 8	8 8	ğ	, E	8 8	8 8	B. 5	1 74	B 2
TVA	Destrator Correlation	200	200			300	9	3 8	1000	1190	200	200	24,45	35	37.	700	4884	1500	3 4
<u> </u>	Sir /2-reflect	٠	8 8				<u> </u>	70.	3 8	8 8	3	6 6	5	3 2	\$ 5	8 2	B 8	3 5	- 6
	, Z	. 052	§ 8			247	7	1 8	£ 52	5 52	. 25	98	249	5 52	, 8	250	250	, 93 20	9
CITIZEN	Pearson Correlation	•	173			075	-025	78	433	318	-919	1,000	261	012	-5/2	280	-671	2	920
	Sig. (2-tailed)		8			240	500	895	8	8	8		98	.852	8	168	88	g	218
	z	250	250			247	248	248	250	250	220	250	249	25	82	580	550	93	280
SCIENCE	Pearson Correlation	-	218			410	660	186	.083	116	314-	281-	1.000	-049		.251***	.318**	282	245
	Sig. (2-tailed)	_				.825	.119	500	<u> </u>	.067	000	900	_	4	00	000	98	ģ	8
-	z	249				246	248	249	249	248	249	250	279	249	249	249	249	248	248
BAND	Pearson Correlation		L			125	-087	-1117	015	8 9.	989	012	. DA9	1.000	ş	188	-8S1.	122	.151*
	Sig. (2-tailed)	•	8			156	1.28	.0 6 5	118	.317	574	.852	ź	•	98.	<u>ş</u>	.013	ğ	.017
	2	5 20	250		1	247	248	248	250	250	250	550	248	220	250	250	250	52	92
ABILITY	Pearson Correlation	•.	8			.134	-142	8	270	S.	77	.275	73.	ž.	000.	555	583	10.	.575
	% (>-aned)	. 52				93.	825	8 8	8 8	3 8	§ §	8 8	8 8	B 5	. 8	8 5	8 %	3 8	3 8
HLANAGO	Pearenn Correlation	A				147	305	3000	8	820	3 5	282	25, m	180m	202	2	787	77.0	244
•	Sia (2-brilled)		3 8			8	E	8	3 5	2	2	5 5	ē 8	3 2	8	}	į §	£	E
	Z	250				782	88	97	950	52	8	52	549	255	8	250	250	25	8
ENGGPA	Pearson Correlation	•.	L			282***	-284	330	.156*	131*	.165***	-173-	.316***	.158*	.CBS:	-782-	1.000		4
	Sig. (2-tailed)	•				000	00	8	.013	800	600	986	900	.013	8	000	•	ş	8
	z	250				247	248	249	250	250	550	250	249	550	82	250	520	250	250
GPAS	Pearson Correlation	•.	L			285***	-320-	326	111.	980	.150-	7.	282	122	410.	9 <i>77</i> .		1.000	.607
	Sig. (2-tailed)		98.			990	80	8	3 90.	174	710.	5035	99	3 6	8	900	98	•	99.
	z	250	82		4	247	248	249	250	9 2	520	520	548	52	ĸ	250	350	ş	8
GPASS	Pearson Correlation	•.	.852			-243	-254	383	99.	Ž.	.115	970.	245	151	-575	4	44	8	8
	Sig. (2-tailed)	- 6	B 8	8 3		8 5	8 5	8 8	8 8	8 8	6 6 8	218	8 8	710.	8 8	8 8	8 8	8 8	. 8
]	Z	250	2 .			187	740	447	nc2	25	œ	167	248	ē	3	767	2	70	ē

^{**} Correlation is eignificant at the 0.01 level (2-tabled).

** Correlation is eignificant at the 0.05 level (2-tabled).

** Cannot be computed because at least one of the variables is constant.

** D. YRBLOCK = 1.00

Appendix E

Table of Significant Correlations
Sorted by Years Experience in Block Scheduling
For those marked with an asterisk (*), the significance level is .05 (5%).
All others are significant at the .01 (1%) level.

No Block	2 Years in Block	3 Years in block
Cumulative GPA & ACT scores Cumulative GPA & OPT Math* Cumulative GPA & Band* Cumulative GPA & Ability Cumulative GPA & Math GPA Cumulative GPA & English GPA Cumulative GPA & Science GPA Cumulative GPA & Soc. St. GPA	Cumulative GPA & OPT Reading* Cumulative GPA & OPT Math Cumulative GPA & OPT Citizenship Cumulative GPA & OPT Science Cumulative GPA & Ability Cumulative GPA & Math GPA Cumulative GPA & English GPA Cumulative GPA & Science GPA Cumulative GPA & Soc. St. GPA	Cumulative GPA & ACT Scores Cumulative GPA & OPT Writing* Cumulative GPA & OPT Reading* Cumulative GPA & OPT Math Cumulative GPA & OPT Citizenship Cumulative GPA & OPT Science Cumulative GPA & Band Cumulative GPA & Band Cumulative GPA & Math GPA Cumulative GPA & English GPA Cumulative GPA & Science GPA Cumulative GPA & Science GPA Cumulative GPA & Soc. St. GPA
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English GPA & Math GPA	English GPA & OPT Science	English GPA & OPT Reading*
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English GPA & Soc. St. GPA	English GPA & Math GPA	English GPA & OPT Citizenship
	English GPA & Science GPA	English GPA & OPT Science
	English GPA & Soc. St. GPA	English GPA & Band*
		English GPA & Ability
		English GPA & Math GPA
		English GPA & Science GPA
		English GPA & Soc. St. GPA
Science GPA & Cumulative GPA	Science GPA & Cumulative GPA	Science GPA & Cumulative GPA
Science GPA & ACT Score	Science GPA & ACT Score*	Science GPA & ACT Score
Science GPA & Ability	Science GPA & OPT Reading*	Science GPA & OPT Math*
Science GPA & Math GPA	Science GPA & OPT Math	Science GPA & OPT Citizenship*
Science GPA & English GPA	Science GPA & OPT Citizenship	Science GPA & OPT Science
Science GPA & Soc. St. GPA	Science GPA & OPT Science	Science GPA & Ability
	Science GPA & Ability	Science GPA & Math GPA
	Science GPA & Math GPA	Science GPA & English GPA
	Science GPA & English GPA	Science GPA & Soc. St. GPA
	Science GPA & Soc. St. GPA	
	G. St. CDA 8 Complete CDA	Can St CDA & Compulative CDA
Soc. St. GPA & Cumulative GPA	Soc. St. GPA & Cumulative GPA	Soc. St. GPA & Cumulative GPA
Soc. St. GPA & ACT Score	Soc. St. GPA & OPT Reading*	Soc. St. GPA & ACT Scores
Soc. St. GPA & Ability	Soc. St. GPA & OPT Math	Soc. St. GPA & OPT Writing
Soc. St. GPA & Math GPA	Soc. St. GPA & OPT Citizenship	Soc. St. GPA & OPT Reading
Soc. St. GPA & English GPA	Soc. St. GPA & OPT Science	Soc. St. GPA & OPT Science
Soc. St. GPA & Science GPA	Soc. St. GPA & Ability	Soc. St. GPA & Band*
	Soc. St. GPA & Math GPA	Soc. St. GPA & Ability
	Soc. St. GPA & English GPA	Soc. St. GPA & Math GPA
	Soc. St. GPA & Science GPA	Soc. St. GPA & English GPA
		Soc. St. GPA & Science GPA

No Block	2 Years in Block	3 Years in block
34 significantly correlated pairs 0 negative correlationships	46 significantly correlated pairs 2 of them negative correlationships	56 significantly correlated pairs 0 negative correlationships
Total potential pairs (OPT science was not required of this class and 4 ACT relationships were not identified due to a lack of variation in the OPT fields) = 62 pairs	Total potential pairs (the 5 OPT tests and the band relationships with the ACT Scores were not identified due to a lack of variation in either the OPT or ACT fields) = 72 pairs	Total potential = 78 pairs
54.8% of potential pairs are significantly correlated in a positive direction.	63.9% of potential of potential pairs are significantly correlated. 61.1% are significantly correlated in a positive direction.	71.8% of potential pairs are significantly correlated in a positive direction.
If the 4 pairs eliminated due to a lack of variation were considered as significantly correlated, then there would be 38 significantly correlated pairs out of a potential 66. Then 57.6% of the pairs would be significantly correlated.	If the 6 pairs eliminated due to a lack of variation were considered as significantly correlated, then there would be 52 significantly correlated pairs out of a potential 78. Then 66.7% of the pairs would be significantly correlated with 64.1% significantly correlated in a positive direction.	71.8% of potential pairs are significantly correlated.

		ACT	CUMGPA	ABSEN9	ABSEN10	ABSEN11	ABSEN12	GPAMATH ENGGP	ENGGPA	GPAS	GPASS
ACT	Pearson Correlation	8	.746**	.832	025	583	052	:-909:	±142.	.574***	460
	Sig. (2-tailed)	8	8.6	1. 6	8 €	8 8	<u>8</u>	8	88	8	8.8
CUMGPA	Pearson Correlation	746**	1,000	- 149	- 176	2 8	280**	308 808	8277**	70	7032
	Sig. (2-tailed)	8		46		8 8	200	3	5	3 8	3 8
	Z	62	8	97	8	8	8	38	38	38	38
ABSENG	Pearson Correlation	.032	-149	1.000	.876**	.294**	.304**	-101	-119	£1	. 140
	Sig. (2-tailed)	1,8	54		<u>8</u>	8	98.	.327	.246	621.	571.
	Z	8	97	97	97	97	æ	97	26	26	97
APSEN10	Pearson Correlation	025	176	.876**		:788.	.237**	-109	125	£1	12
	Sig. (2-tailed)	8 ₹ 8	85.8	9.6		<u>§</u>	920. 8	. 1285 55	.218	5.8	.219
ABSEN11	Pearson Correlation	- 033	. 168	***	337.	86	884	3 T		3	3 8
	Sig. (2-tailed)	8	960	88		3	38	5.5		5 5 6	3 6
	N	62	8	26		88	3 8	8	8	<u> </u>	S 8
ABSEN12	Pearson Correlation	062	289**	.304**	_	.664**	1.000	176		.280**	- 20
	Sig. (2-tailed)	8	.007	9		8	_	.107	.072	8	8
	Z	62	88	8		88	8	8	8	8	88
GPAMATH	Pearson Correlation	98	*908: **	<u>.</u> .	<u>5</u>	-,157	9/1:-	1.000	.753**	.770**	**899
	Sq. (z-talled)	3.8	3.8	77.0		8.8	.107	{	8	8	8
400014	2	8	3	6		33	8	83	83	83	0,
A LOS	Pearson Correlation	¥ 6		119	-125	<u>@</u>	- 196	.753**	8	.871 **	.806**
•	Sig. (z-tailed)	3.8	3.8	5. to		8 (S	.072	8.		8	8.
0,00	2	70	3				æ	83	83	88	0,
GPAS	Pearson Correlation	5/4"	.883				- 280-	.770.	178.	0. 0.	1067.
	olg. (z-talled)	3.8	38	S .			8. 8.	8	8	i	8
0000	2	3 5	3				8	88	88	88	8
STASS	rearson correlation	3 8	ģ.			•	500			**06/	1.000
	N (Z-railed)	38	3 8	26	<u>8</u>		g R	88	88	88	8
WRITING	Pearson Correlation	a	3 5				3 8	B	3	3	"
	Sig. (2-tailen)	3	3 8			38		17.8	5 F	54.	8 E
	Z	8	8			8	100	8	2 8	<u> 8</u>	3 8
READING	Pearson Correlation	w	.188			032	æ	920.	070.	171.	19.
	Sig. (2-tailed)		.88			133		.457	84	8	5.
	Z	83	88			8	88	88	88	88	U,
MATH	Pearson Correlation	w	432**			137	3/0.		.324**	.338**	1.
	Sig. (Z-tailed)	8	8.8	.975		176	8	.8	8	8	8
MERIT	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	70	3 8			33 (8	83	88	88	o,
	Pearson Correlation	TG .	577		.076	106	122	.212	.206	8	5
,	Oig. (z-talled)	8	8	6.70	<u>§</u> 8	§ 8	8 8 8	왕	<u>¥</u> 8	4 8	8,
SCIENCE	Pearson Correlation	88	438**		38	3	8 5	S +OCV	3 to 2	300	מין מין אוריים
	Sin (2-failed)	3	2	8	7 2	3 8	102	3 5	770	79.	ģ.
	Z (3) .8)	4	92	74	32	<u> </u>	8 8	38.	3.8	3 %	3 8
BBLOCK	Pearson Correlation	- 136	024	.046	- 018	120	012	164	2000	200	Ö
	Sig. (2-tailed)	800	710	į	100			5 !	24	Ì	9
					2	(X	5	ב ב	<u>۔</u>	2	ξ

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Appendix F: Band Participants—Correlations Before and After Block Scheduling

		<u> </u>	7 Z	MAH	Z I	2	ממ
	Pearson Correlation	a	a	e		200	125
	Sia (2-failed)	!	ļ	3	3	} <u>ƙ</u>	<u>.</u> 8
	N	62	82	8	83	₹	8
	Pearson Correlation	<u>8</u>	188	432**	.223*	438**	024
	Sig. (2-tailed)	.289	.062	8	.026	8	.817
	Z	8	8	88	88	9/	88
	Pearson Correlation	8	88	8	.023	900	046
	Sig. (2-tailed)	928	419	976	.825	362	8 6
	Z	97	97	97	26	74	97
	Pearson Correlation	918	-1.000	183.	920.	.022	018
	Sig. (2-tailed)	.862	8	92.	.452	128	.861
	Z	8	8	88	88	92	88
	Pearson Correlation	8	032	137	.106	160	.021
	Sig. (2-tailed)	8 6	£7.	176	82.	<u>8</u>	.835
	Z	88	88	88	88	9/	88
	Pearson Correlation		æ	570.	.122	182	.012
	Sig. (Z-talled)	7,5	Ļ	₹ 8	8 8	82.	9. 4. 10
	Z	8	8	8	88	62	8
GPAMATH	Pearson Correlation	.121	076.	.307	212	420**	2
	Sig. (z-tailed)	3 8 	ģ.	3 8	3 8	3 %	<u> </u>
	VI Some O some O	8 5	B	8 66	3 8	0	3 8
_		<u> </u>	55	.324	\$ 5	775	622
	od. (z-tailed)	2 8	3 8	§ 8	<u>4</u> 8	98. 8.	022
ľ	2	B	B	3	3	Q	3
	Pearson Correlation	3.1	7.8	88	.503.	.482**	
	Olg. (z-tailed)	<u> </u>	<u> </u>	3 8	<u> </u>	3 5	¥. 8
	2	B	B	ß	3	9	33
	Pearson_Correlation	3 3	3	17	3	352	000
	Sig. (2-taileo)	₩.	.107	<u>8</u>		.002	8
	2	38	33	33	33	9	33
	Pearson Correlation	<u>.</u> 8	.010	-028	.571**	057	056
	Sig. (2-tailed)		920	787	8	.623	285
	z	88	83	8	88	76	88
	Pearson Correlation	.00.	90.	366**	018	067	056
	Sig. (2-tailed)	920		8	198	.623	585
	z	8	88	8	88	9/	88
	Pearson Correlation	028	.366*	1.000	# 114	.185	152
	Slg. (2-tailed)	.784	8		8	110	<u>5</u>
	2	88	88	88	88	9/	88
	Pearson Correlation	.571**	018	**114	000.	8 0.	097
	Sig. (2-tailed)	8	.861	8	•	.585	.338 338
	z	88	88	86	8	9/	8
	Pearson Correlation	'	057	.185	690	60.	æ
	Sig. (2-tailed)		.623	110	.585		
	Ň		76	92	92	9/	9/
	Pearson Correlation	990:-	990:-	152	097	æ	1.000
	Sig. (2-tailed)	ਲ 8	₩ 8	<u>¥</u> 8	88	ş	{
	,	B	B	B	B	9	3

rest. 9

^{**} Correlation is significant at the 0.01 level (2-tailed).

* Correlation is significant at the 0.05 level (2-tailed)
a. Cannot be computed because at least one of the variables is constant



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